

# آزمون کارشناسی ارشد وزارت بهداشت سال ۱۳۹۲

فایل سوالات

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**Part One:  
Vocabulary**

**Directions**

*The following are incomplete sentences. Below each one are four words or phrases marked, (a), (b), (c), or (d). Choose the one word or phrase which best completes the sentence.*

**1. Some food additives have been ..... to cause cancer; so they are no longer used.**

- a) incriminated  
b) overwhelmed  
c) implemented  
d) dislocated

**2. When a person's immune system is..... by air pollution or stress, he/she is more susceptible to disease.**

- a) precipitated  
b) compromised  
c) reinforced  
d) augmented

**3. The..... onset of her disease was striking; we all got shocked.**

- a) ceasing  
b) fading  
c) extinct  
d) abrupt

**4. Poverty can be regarded as a/an..... of crime; in other words, it often leads to illegal acts.**

- a) ingredient  
b) premium  
c) antecedent  
d) preview

**5. Your wound has got..... within several hours; it is most likely that an abscess develops.**

- a) suppressive  
b) promotive  
c) suppurative  
d) proactive

**6. Your son's laziness is ..... his wish to become a doctor; he has no perseverance to reach his goal in life.**

- a) derived from  
b) biased toward  
c) pertinent to  
d) inconsistent with

**7. Although he was warned by the physicians to avoid getting obese, he still tends to ..... chocolate when watching T.V.**

- a) stare at  
b) dream of  
c) indulge in  
d) abstain from

**8. Preventive measures can be taken to block each unexpected..... of the stressful interventions used by physicians in their private offices.**

- a) consequence  
b) equilibrium  
c) prophylaxis  
d) tranquility

**9. He admitted the ..... merits of my idea, but he said it would need a lot of refinements before implementing it.**

- a) extravagant  
b) instinctive  
c) exhausting  
d) intrinsic

**10. Negative stimulants such as allergies are important in ..... asthma.**

- a) alleviating  
b) triggering  
c) diminishing  
d) monitoring

**11. Children suffering from malnutrition may be..... but become interested in their environment again after normal nutrition is restored.**

- a) apathetic
- b) retarded
- c) prejudiced
- d) gifted

**12. Our efforts were producing ..... returns; we achieved less every time although we spent more energy and finance.**

- a) enhancing
- b) diminishing
- c) boosting
- d) convincing

**13. Public health is the science and art of preventing disease, prolonging life and health.**

- a) compensating
- b) resuming
- c) promoting
- d) sophisticating

**14. Next year, the school is going to honor the one most ..... teacher selected jointly by the directing board and the top students of the faculty.**

- a) outstanding
- b) absurd
- c) weird
- d) integrating

**15. Ethnic and cultural factors have important ..... death rates, though it is often difficult to separate their individual effects.**

- a) efforts for
- b) approaches to
- c) impacts on
- d) varieties of

**16. Some occupations are mentally stressful, but demand little physical activity, a combination which may ..... an increased likelihood of the development of coronary artery disease.**

- a) result from
- b) lead to
- c) deal with
- d) amount to

**17. Research on the issue of lung cancer is still.....; a lot more should be done to get a better picture of its true nature.**

- a) inconclusive
- b) representative
- c) persuasive
- d) inclusive

**18. Malnutrition increases both ..... and severity of airborne infections.**

- a) disturbance
- b) prevalence
- c) assistance
- d) relevance

**19. Leaving the hospital too soon, he..... his condition.**

- a) relieved
- b) retrieved
- c) maintained
- d) aggravated

**20. The stroke left the old man completely.....; he cannot do his daily activities anymore.**

- a) perpetuated
- b) incorporated
- c) contaminated
- d) incapacitated

## Part Two: Reading Comprehension

### Directions

Read the following passages carefully. Each one is followed by several questions about it. Choose the one best answer, (a), (b), (c), or (d), to each question. Then on your answer sheet, fill in the space that corresponds to the letter of the answer you have chosen. Base your answer to each question on the information given in the passage only.

### Passage One

Calcium supplements, taken by millions of elderly people and post-menopausal women to prevent bone thinning, may double the risk of having a heart attack, a study has found. Previous studies linked higher calcium intake with a reduction of heart disease risk factors such as high blood pressure, obesity and type 2 diabetes. But the new research from Germany points to a vital difference between dietary calcium from sources such as milk, cheese, greens and kale, and supplements. Taken in supplement form, the mineral floods the bloodstream, causing changes that may produce hard deposits on the walls of arteries, scientists believe.

The researchers from the University of Zurich, Switzerland, commented that: "In conclusion, this study suggests that increasing dietary calcium intake might not confer significant cardiovascular benefits, while calcium supplements, which might raise heart attack risk, should be taken with caution." A group of researchers, from the University of Auckland, pointed out that for many healthy middle-aged women, with bone density problem, the overall protective effect was only about 10%, and stressed that dietary calcium, taken in small amounts and spread throughout the day, was absorbed slowly. But supplements caused calcium levels in the blood to soar above the normal range, possibly increasing the risk of artery calcification. Natasha Stewart, the charity's senior cardiac nurse, said: "This research indicates that there may be an increased risk of having a heart attack for people who take calcium supplements. However, this does not mean that these supplements cause heart attacks. Further research is needed to shed light on the relationship between calcium supplements and heart health."

**21. The writer has written this passage to show that .....**

- a) post-menopausal women should avoid using calcium
- b) new findings on calcium supplements should be considered
- c) calcium supplements are the main cause of heart attack
- d) calcium supplements and dietary calcium have similar side effects

**22. The research conducted by the researchers in the University of Zurich .....**

- a) confirmed that calcium supplements are thoroughly safe
- b) supported what former studies had found
- c) confirmed the slow absorption of calcium supplements
- d) supported the finding of German researchers

**23. Natasha Stewart in her statement .....**

- a) points to other research supporting the new finding on calcium supplements
- b) calls for more investigations on the issue under discussion
- c) refers to another finding which is in contrast with that of German researchers
- d) reviews the literature of the studies on calcium supplements

**24. The protective effect of 10% refers to protection against .....**

- a) heart attack
- b) bone thinning
- c) side effects of dietary calcium
- d) side effects of calcium supplements

**25. The new finding suggests that .....**

- a) the findings of the former studies are quite valid and reliable
- b) what Stewart maintains is somehow 'in contrast with new facts
- c) calcium supplements cause deposits in the walls of arteries
- d) dietary calcium make deposits in type 2 diabetic and obese patients

**Passage Two**

Within the public health community, there is a need for public health physicians, public health specialists and managers to find an intellectual focus for joint working since each group has a vital contribution to make to the superordinate goal of improved health. Failure to find such a focus can only result in further inter-professional rivalry, a lack of coordinated working, and confirmation that those leading public health are not 'fit for purpose.'

Public health management demands knowledge and management skills of the highest order, and these are in short supply. Public health managers must be able to adopt a strategic- approach and be able to describe and understand the health experience of populations and analyze the factors affecting health. Skills in leadership and political action are necessary to achieve change. Managers have to operate in multi-professional, multi-agency environment and be able to achieve multi-sectoral change.

**26. To integrate the skills of health specialists and health physicians ..... are considered necessary.**

- a) professional rivalries
- b) managerial skills
- c) intellectual activities
- d) health practitioners

**27. In achieving the superordinate goal of improved health, the text .....**

- a) highlights the significance of joint work
- b) substitutes managerial skills
- c) seeks advice from public health community
- d) largely remains indifferent

**28. Public health community is said to suffer from a lack of ..... At high rank managerial posts.**

- a) managerial budgets
- b) public health practitioners
- c) field – specific environments
- d) appropriate planning skills

**29. In order to succeed, public health managers need to .....**

- a) elevate interprofessional rivalry
- b) neglect superordinate purposes
- c) have multidisciplinary training
- d) recruit numerous specialties

**30. The writer is ..... the current status of public health management.**

- a) dissatisfied with
- b) indifferent toward
- c) responsible for
- d) positive about

**Passage Three**

Tele-surgery is in its infancy. It is practiced in two ways. Tele-mentoring describes the assistance given to junior surgeons carrying out a surgical procedure at a remote location under the supervision of experienced surgeons. Typically, the assistance is offered via a video and audio connection that can extend elsewhere in the building or over a satellite link to another country. The other approach is Tele-presence surgery, which guides robotic arms to carry out remote surgical procedures. In this case, the term 'remote' may describe comparatively short distances as well as large ones since the surgeon manipulates interfaces connected mechanically and electronically to surgical instalments such as scalpels and needles.

Tele-surgery' data and information requirements are much higher than other applications of Tele-health. Tele-surgery requires a network with high reliability, an acceptable transmission delay, the ability to transfer vast amounts of data, and low data error rates. Fortunately, telecommunication technology is advancing at an exponential rate, and with the development of both satellite and inexpensive land-based broadband capabilities, the future of Tele-surgery is very promising.

**31. Tele- mentoring has mainly emerged .....**

- a) as a replacement for surgical instruments
- b) with the purpose of treating patients
- c) for employing robots in medicine
- d) with educational purposes

**32. According to the passage. Tele-presence surgery is necessarily performed by .....**

- a) robots assisting surgeons
- b) surgeons at far distances
- c) advanced satellite systems
- d) uninitiated junior surgeons

**33. It is implied from the passage that Tele-surgery as compared with other health applications presented from a remote distance .....**

- a) is presently in extensive use
- b) requires high transmission delay
- c) is technologically more demanding
- d) presents fewer educational services

**34. The writer of the passage above is .....**

- a) positive about the future of Tele-surgery in light of rapid advances in technology
- b) doubtful about the future of Tele-surgery due to high cost and challenges of telecommunication
- c) positive that transmission delay and high data error will be covered up by the high reliability of the network
- d) assured that electronic and mechanical scalpels and needles applied through satellite will make the future of surgery

**35. According to the passage, remote surgical procedures are essentially performed in .....**

- a) far away areas like a distant village through a satellite link
- b) a medical university via the assistance of a specialist surgeon
- c) far and close distances via electronic mechanisms
- d) a closed space by conventional surgical instalments

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**Passage Four**

Every word on a label describing a food, a drug, a cosmetic, or a medical device is important in protecting you and your family from buying an inferior product, from misusing a good one, from being tricked by dangerous quackery, or from unknowingly possessing an item harmful to health.

First of all, the label on a can or package of food must be completely truthful. If a loaf of bread is made with soy flour, the loaf cannot be labeled as white bread.

A label must not be misleading. This restriction is somewhat vague and therefore cannot prevent all violations. Although the government tries to eliminate all misleading labels, the consumer must nevertheless be always on guard. Just because a can of sardines has a fancy-sounding foreign name, don't take for granted that the fish were imported. It is the law, too, that manufacturers must list their names and places of business on their labels.

Manufacturers must use common names in identifying their products so that anyone can readily understand what he is buying. Synthetic foods must be prominently labeled as artificial. Foods composed of two or more ingredients must bear labels listing all ingredients in the order of predominance.

**36. In the first paragraph the author deals with .....**

- a) which products must have labels
- b) which labels consumers should pay more attention to
- c) why labels on products are necessary
- d) why manufacturers avoid labeling some products

**37. It is stated that consumers .....**

- a) should trust the information provided by the manufacturers
- b) must be cautious about the labels when buying a product
- c) are in favor of misleading labels on their desired products
- d) usually misuse the information on the labels of most products

**38. According to the text, the main organizations or individuals legally monitoring the labels are the .....**

- a) governments
- b) consumers
- c) manufacturers
- d) businessmen

**39. It is implied that the consumers should read the labels carefully to .....**

- a) propose common names for products
- b) inform the manufacturers about any wrong information
- c) eliminate any probable misleading information
- d) avoid buying inappropriate products

**40. According to this reading selection, a foreign name on a label .....**

- a) may mislead some consumers
- b) is against the laws of business
- c) is welcomed by many monitoring agents
- d) should be forbidden on domestic products

1	a	11	a	21	b	31	d
2	b	12	b	22	d	32	a
3	d	13	c	23	b	33	c
4	c	14	a	24	b	34	a
5	c	15	c	25	c	35	c
6	d	16	b	26	b	36	c
7	c	17	a	27	a	37	b
8	a	18	b	28	d	38	a
9	d	19	d	29	c	39	d
10	b	20	d	30	a	40	a



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**11. In treating a terminally ill patient, the physician should determine whether the benefits of treatment ..... its burdens.**

- a) outburst
- b) overact
- c) outweigh
- d) overrun

**12. Any understanding of the purpose of health care is going to be influenced by the economic, social, and psychological ..... of health care providers.**

- a) concerns
- b) contents
- c) conflicts
- d) complexes

**13. Many people do not know that they are saved from diseases just by public health..... .**

- a) measures
- b) interferences
- c) interactions
- d) manifestations

**14. Although some physicians are not willing to accept AIDS patients, they have an ethical..... to explain their medical problems.**

- a) inspection
- b) obligation
- c) instruction
- d) hallucination

**15. Only the reasonable desires of the individual for health care need to be ..... .**

- a) spared
- b) saturated
- c) satisfied
- d) spanned

**16. Blood tests are important measures to find signs of some..... .**

- a) convertible
- b) hidden
- c) forbidden
- d) disposable

**17. Great men's services are ..... to mankind.**

- a) invalid
- b) vague
- c) vain
- d) invaluable

**18. Recent research suggests that, on average, half of the children of a person with any rare genetic ..... will inherit the disease.**

- a) defect
- b) profile
- c) merit
- d) make-up

**19. Although entirely eradicated in most parts of the globe, malaria is still ..... in some regions.**

- a) prevalent
- b) inexistent
- c) improbable
- d) permeable

**20. Anyone in charge of important computer files must be careful about ..... deletion of vital information although various data recovery packages might help undo the deletion.**

- a) advantageous
- b) sufficient
- c) calculated
- d) inadvertent

**Part Two:  
Reading Comprehension**

**Directions**

Read the following passages carefully. Each one is followed by several questions about it. Choose the one best answer, (a), (b), (c), or (d). to each question. Then on your answer sheet, fill in the space that corresponds to the letter to the answer you have chosen. Base your answer to each question on the information given in the passage only.

**Passage One**

Pharmacology as a scientific discipline dates from the mid-1800s, but its development has taken place over many centuries and has been influenced by many different cultures. The discovery of many drugs and medicinal plants was largely through trial and error. Across the world as tribal man foraged for food, he soon realized that his local woodland areas harboured a variety of roots, barks, berries and leaves, which were not only sources of food, but also in some cases possessed medicinal (healing, soothing and therapeutic) properties. He also came across other matters that were highly toxic. Information about such plants was handed down from generation to generation, providing the basis of much of our knowledge today. One such example is the South American Indians, who gave us the first muscle relaxant: a drug called curare that they smeared onto the tips of their spears to immobilize animals when hunting. Today a drug which possesses similar characteristics is used by doctors to relax their patients' muscles during operations.

**21. According to the text, scientific pharmacology .....**

- a) has existed for many centuries
- b) has influenced several cultures
- c) developed due to cultural influences
- d) first appeared in the mid-1800s

**22. Soothing effects of some plants were first discovered by .....**

- a) some tribal men while hunting
- b) tribal people looking for food
- c) tribes surrounded by trees and bushes
- d) passing the drugs from tribe to tribe

**23. "curare" was originally used by Indians to .....**

- a) cure sick tribal men
- b) have more efficient spears
- c) eliminate pain and infection
- d) kill enemies in tribal wars

**24. The features of the drug, now..... resemble those of the drug used by Indians while hunting.**

- a) a highly toxic substance
- b) beneficial in surgery
- c) a muscular stimulant
- d) an effective precursor

**25. The passage is mainly trying to indicate the .....**

- a) principles of pharmacology
- b) components of certain drugs
- c) beneficial effects of some drugs
- d) herbal origin of drugs

**Passage Two**

Society will be working toward a distribution of basic health care that is adequate for the restoration and preservation of health as society defines it. This basic and adequate health care may be called humane in so far as it protects the dignity of the individual person.

When the absence of a certain types of health care leads to early death, disfigurement, or loss of functions

necessary to take one's place in society, we have certainly fallen below the basic minimum of health care for society. In other words, the absent care is part of the basic and adequate minimum. It is basic because, in our society at our stage of ethical, scientific, and technological development, the dignity of the individual demands that we employ reliable and ordinary means to maintain a certain minimum level of treatment. This minimum requires that the individual gain relief from pain, which destroys the higher human functioning, and restores at least the minimum functioning valued by society; that she be spared a death that is the result of trivial or avoidable circumstances; that she be spared disfigurement that will make her repugnant to her society and herself; and that she be spared a loss of function that will make her unable to share the actions, burdens, and accomplishments that membership in society demands. A poorer society than ours might not be able to address many of these concerns due to its lack of abilities and resources.

**26. According to the passage, humane health care could be defined in terms of .....**

- a) preserving a person's true worth
- b) individual's focus on family concerns
- c) equal distribution of health care resources
- d) considering and protecting social demands

**27. We understand from the passage that individuals .....**

- a) are disfigured despite abundant health care
- b) may die from otherwise curable diseases
- c) share concerns of many other people
- d) are respected if function in a proper manner

**28. The underlined pronoun "she" in the text refers to .....**

- a) a specific person in a poor society
- b) the female patient in need of health
- c) the woman addressed by the writer
- d) every member of the society

**29. The text implies that a/an..... society might not specify its people's basic health care worries.**

- a) developed
- b) malfunctioning
- c) impoverished
- d) affluent

**30. The author of this passage believes that human dignity requires that different societies .....**

- a) have the same level of health care
- b) maintain their own minimal level of health care
- c) address the social groups similarly
- d) contribute to poor countries' health care system

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### Passage Three

A child born in Sweden is almost 30 times more likely to reach the age of five than a child born in Swaziland. While the national rates conceal variations in mortality between the rich and the poor, urban and rural, it is possible to suggest that national wealth is the key factor in determining mortality. However, the evidence clearly indicates that mortality is affected by factors other than national wealth. The most striking example is the comparison between the United States and Cuba. Though life expectancy in both is virtually identical, the former spends less than \$200 per person on healthcare while the latter spends almost \$4,400 per person. Cooper R et al. (2006) state that much of this is due to relatively small amounts invested in infrastructure combined with a well-developed public health strategy. As Copper R cl al. go on to emphasize, "if the experience of Cuba could be extended to other poor and middle-income countries, human

health would be transformed.” However, since the 1980s Cuba has also been involved in technology developments. The research, development, and marketing of advanced drugs on a worldwide scale illustrate how much can be achieved by a low-income country.

**31. The passage is mostly discussing .....**

- a) the role of national wealth in health
- b) Cuban experience in health promotion
- c) factors reducing mortality rate
- d) mortality rate among the poor and the rich

**32. Mortality rate can be lowered by .....**

- a) low investment in infrastructure
- b) production of advanced drugs
- c) a suitable public health strategy
- d) life expectancy among people

**33. The comparison made between the USA and Cuba ..... the key role of national wealth in lowering mortality rate.**

- a) refutes
- b) approves
- c) elaborates
- d) reaffirms

**34. The comparison between the United States and Cuba reveals that .....**

- a) the former spends more on life expectancy
- b) the latter has a better healthcare system
- c) the average longevity in both is the same
- d) life expectancy in the former is higher

**35. According to Cooper et al., in order to promote public health, the Cuban model of health care system should be .....**

- a) modified
- b) abandoned
- c) transformed
- d) followed

#### Passage Four

Researchers have examined data from 500 men followed for 14 years after a prostate biopsy that was found to be benign. This is the first of a group of studies to be conducted in order to determine if there are subpopulations of men diagnosed with benign conditions that may be at a greater risk for developing prostate cancer. Prostate abnormalities were detected in 11 percent of the patients, and after considering factors including family history of prostate cancer, the researchers concluded that obesity at the time of the initial biopsy was associated with a 57 percent increased risk of developing prostate cancer during the 14 years of follow-up. We don't absolutely know what the true biology is because the association was seen only for prostate cancer that occurred earlier in the follow-up period not in its later years. Therefore, this only reflects the association between the body size and larger prostate size, which is thought to reduce the sensitivity of the needle biopsy. It is possible that the tumors missed by initial biopsy grew and were detected in a follow-up biopsy. Although the association found in this study does not prove cause and effect, it indicates that obesity should be considered a factor for follow-ups after a benign prostate biopsy.

**36. Based on the information presented in the passage, about ..... patients from the followed-up population proved to have prostate abnormalities after some years.**

- a) 275
- b) 125
- c) 55
- d) 445

**37. The main purpose of these series of studies is to answer the question of whether .....**

- a) benign prostate cases could develop into malignancies in the course of time
- b) cases decided as cancerous could prove to be benign in the course of time
- c) present techniques of biopsy are reliable indicators of the existence of cancer
- e) family history can be considered as a reliable predictor of prostate cancer

**38. Based on the results of the present study, patients who ..... at the time of initial examination were more likely to develop prostate cancer in the subsequent years.**

- a) underwent the needle biopsy technique
- b) failed to follow prescriptions
- c) had a family history of prostate cancer
- d) suffered from obesity

**39. The one claim that the author makes as the most likely reason for the observed results is .....**

- a) when examining obese men, needle biopsy loses its sensitivity in finding cancerous cells
- b) obesity contributes to the development of prostate cancer early in the follow-up
- c) family history may contribute to the development of prostate cancer
- d) diagnosis of benign conditions has lost its credibility over years

**40. The factor that causes the biology of what was observed to become less clear is that .....**

- a) tumors were invariably missed in the initial biopsy
- b) the association between the body size and prostate size was not found
- c) cancers were observed only in the initial years of the follow-up period
- d) only some subpopulations of men developed cancer

1	b	11	c	21	d	31	b
2	d	12	a	22	b	32	c
3	a	13	a	23	b	33	a
4	b	14	b	24	b	34	c
5	a	15	c	25	d	35	d
6	c	16	b	26	a	36	c
7	a	17	d	27	b	37	a
8	d	18	a	28	d	38	d
9	b	19	a	29	c	39	a
10	c	20	d	30	b	40	c

**Part One:  
Vocabulary**

**Directions**

*The following are incomplete sentences. Below each one are four words or phrases marked, (a), (h), (c), or (d) Choose the one word or phrase which best completes the sentence.*

**1. The main cause of obesity is the fact that our body cells have the potential to..... fat.**

- a) hamper                      b) accumulate                      c) hinder                      d) diminish

**2. Life experiences can..... an individual's brain to become shy or outgoing over time.**

- a) deform                      b) dissect                      c) merge                      d) mold

**3. Some people may live with a hidden problem that ..... they face in a new public environment which requires them to express it.**

- a) surfaces                      b) is concealed                      c) survives                      d) is convinced

**4. Moderate to vigorous exercise makes the body's vessels..... so the muscles are provided with more blood.**

- a) shrink                      b) dilate                      c) soar                      d) contract

**5. According to some research, when there's plenty of calcium in the blood, fat cells get the message to..... storing fat, so obesity is improbable.**

- a) commence                      b) command                      c) quit                      d) query

**6. They are worried that their decision might prove to be..... to the future of the regional health facilities.**

- a) invaluable                      b) conspicuous                      c) detrimental                      d) promotive

**7. Traditional medicine that has been adopted by other populations outside its ..... culture is often termed alternative medicine.**

- a) indigenous                      b) inferior                      c) irreversible                      d) foreseeable

**8. Poorly managed collection and cultivation practices could lead to the..... of endangered plant species and the destruction of natural resources.**

- a) conservation                      b) extinction                      c) retention                      d) suspension

**9. As science develops, extremely premature babies have switched from certain death to possible struggle to .....**

- a) survive                      b) contrive                      c) contain                      d) obtain

**10. The use of high-tech medical tests and surgeries has..... rapidly over the past decade in many countries; they can be seen nearly anywhere nowadays.**

- a) revolted                      b) escalated                      c) shrunk                      d) vanished

**11. Nowadays, improving the quality of health care and reducing medical errors are the main..... in the health care system.**

- a) priorities                      b) afflictions                      c) perforations                      d) hazards

**12. Millions of people do not receive necessary care and suffer needless complications that add to costs and reduce .....**

- a) commodity      b) probability      c) productivity      d) susceptibility

**13. The complete sequencing of a copy of the human genome has been a tremendous ..... in the medical world.**

- a) breakthrough      b) bereavement  
c) retardation      d) deficiency

**14. With modern technology, doctors can save someone who has..... a temporary coma.**

- a) slipped into      b) accessed to      c) accepted      d) invaded

**15. Epidemiological studies use social classifications in the study of diseases in populations and generally make..... use of social sciences.**

- a) orbital      b) ordinal      c) optical      d) optimal

**16. The primary objective of health policies directed towards older persons must promote the..... of healthy aging.**

- a) attendance      b) attainment      c) pretension      d) provocation

**17. Physiotherapy is a health care profession primarily concerned with the..... of impairments and disabilities.**

- a) retention      b) violation      c) ventilation      d) remediation

**18. It is the job of rehabilitation to provide the..... which will help regain function for any deficits you may be experiencing.**

- a) detraction      b) intervention      c) restriction      d) derivation

**19. The current emphasis on the..... and use of electronic health records is well known.**

- a) objection      b) adoption      c) expectation      d) exemption

**20. The introduction and..... of e-health initiatives in hospitals have often been problematic.**

- a) implementation      b) contraindication  
c) aggravation      d) segregation

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**Part Two:  
Reading Comprehension**

**Directions**

*Read the following passages carefully. Each one is followed by several questions about it. Choose the one best answer. (a), (b), (c), or (d). to each question. Then on your answer sheet, fill in the space that corresponds to the letter of the answer you have chosen. Base your answer to each question on the information given in the passage only.*

**Passage One**

Pancreatic cancer is one of the most difficult cancers to treat. It is a biologically aggressive cancer that spreads early in its development and responds to only a few chemotherapy drugs. For many years, there were claims made by some doctors about an intriguing alternative medicine regimen, called proteolytic enzyme therapy of the "Gonzalez regimen". This consisted of orally ingested proteolytic enzymes, nutritional supplements, detoxification, and an organic diet that required at least 70% of the food to be raw or minimally cooked. Supporters claimed this regimen led to superior outcomes compared with chemotherapy treatments. Growing enthusiasm and patient testimonials for this approach led the National Cancer Institute (NCI) to sponsor a clinical trial to compare the Gonzalez regimen with chemotherapy for patients with pancreatic cancer.

The result was reported in 2009 in the Journal of Clinical Oncology and was indeed striking: those who received chemotherapy lived for an average of 14 months whereas those who were treated with the enzyme therapy lived for only 4 months; quality of life was also better with chemotherapy. This study shows once again that any promising new therapy for cancer must be put to the acid test before it can be regarded as effective, and patient testimonials cannot replace hard evidence.

**21. The main purpose of the author for writing this passage is to show that .....**

- a) pancreatic cancer is highly metastatic and fatal
- b) Gonzalez regimen is less aggressive than conventional therapy
- c) alternative medicine is still the best choice for pancreatic cancer
- d) any new therapy should be approved with strong evidence

**22. Before the publication of 2009 report, .....**

- a) chemotherapy was believed to decrease life quality notably
- b) proteolytic enzyme therapy was widely confirmed
- c) Gonzalez regimen had attracted increasing interest
- d) proteolytic enzyme therapy would decrease the survival rate

**23. When using the expression "was indeed striking", the author thinks the results were .....**

- a) promising for proteolytic enzyme therapy
- b) inadequate for the conventional chemotherapy
- c) inconclusive for both conventional and alternative medicine
- d) unexpected despite what was recommended by some doctors

**24. The reported study shows the priority of..... over cancer patients' personal approval.**

- a) supplements
- b) testimonials
- c) solid proof
- d) organic diet

**25. Gonzalez regiment was supported by .....**

- a) sufferers' testimonies
- b) the results of clinical trials
- c) National Cancer Institute
- d) the paper in Clinical Oncology

### Passage Two

Every year scientists open more doors that lead to the secrets of new beneficent drugs. There is bacitracin, which was discovered by two scientists at Columbia University's College of Physicians and Surgeons. These two people, Dr. Frank Meloney and Miss Balbina Johnson, knowing that the human body had some kind of action in itself with which it fights infections, began to search for the chemical that does this. In the hospital they examined badly infected wounds of people who had been hurt in accidents and made tests of the blood and the infected tissue.

Finally, in the wound of a girl who had broken a leg bone, they found the useful germs which seemed to be fighting the poisonous infection. They took some of these into the laboratory and from them developed cultures; that is, larger masses of the germs with which to experiment. At last, after long and painstaking work, they were able to draw from these germs a substance which is a germ destroyer. Dr. Meloney and Miss Johnson named it bacitracin - baci because the germ is, in scientific language, a bacillus and tracin for Margaret Tracy, whose broken leg supplied the germ.

Bacitracin at first was used only locally; later the drug was developed into a solution that can be used to fight germs through the blood stream.

**26. The example of bacitracin indicates that .....**

- a) in some cases a new discovery may be due to chance
- b) discovering a new drug requires persistence and hard work
- c) the body can protect itself in any type of infection
- d) designing a new drug is most frequently limited to medical schools

**27. Nowadays bacitracin is used .....**

- a) for local infections
- b) as an experimentally prescribed drug
- c) as a herbal medicine
- d) for infections anywhere in the body

**28. In this text, culture refers to .....**

- a) masses of germs
- b) lab tests
- c) germ destroyers
- d) chemical infections

**29. The underlined 'does this' (line 4) refers to .....**

- a) infecting the body
- b) starting some kind of action
- c) fighting infection
- d) beginning to search for the chemical

**30. The underlined 'which' (line 4) refers to .....**

- a) action
- b) human body
- c) itself
- d) bacitracin

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### Passage Three

The problem with a new pandemic influenza strain is that there is no hiding place on earth. Virtually any single human being will eventually become infected with the new virus. If you do not get the virus during the first wave of the pandemic, you will probably get it during the second, or during one of the future epidemics. If a novel pandemic influenza strain takes over, everyone needs to mount a protective antibody response against the virus. Antibodies will provide some protection against the new influenza strain, but to develop antibodies you have to either be infected or vaccinated. For the vast majority of the 6.5 billion living human beings, there will be no vaccine available any time soon after the arrival of a new pandemic influenza virus. Furthermore, vaccine supplies will be exquisitely inadequate. In addition, production capacities are concentrated in developed countries including Australia, Canada, France and the United States, and vaccine distribution can be expected to be controlled by the producing nations. We can all imagine who will be served first.

**31. The text implies the..... of influenza virus infecting human livings all over the world.**

- a) likelihood                      b) limitations                      c) scarcity                      d) susceptibility

**32. In case of new pandemic influenza strain, everybody is advised to .....**

- a) travel to a safer location                      b) generate novel vaccines  
c) take a protective measure                      d) contribute to antibody development

**33. One of the main concerns over the new strains of influenza is that .....**

- a) many people fail to have access to the new vaccine  
b) antibodies cannot be developed when the individual is infected  
c) antibodies may correspond to the new flue strain  
d) the majority of people will not survive

**34. With the emergence of pandemic influenza, the vaccines manufactured usually .....**

- a) meet all the related concerns  
b) eradicate the novel strain of virus  
c) endanger the lives of every individual  
d) fail to meet the needs of all affected

**35. From this paragraph it is understood that inhabitants of developed countries .....**

- a) refer to vaccination location with caution  
b) get afflicted with the flue earlier  
c) find it easier to get vaccinated  
d) contribute to the shortage of antiviral drugs

#### Passage Four

A memory is a thought that is stored in a neural system of the brain and then recalled at a later time. Some memories last only for a few minutes and are called short term memories. These probably result from continuous activation of neurons, thus keeping the memory of a thought temporarily alive. However, if the thought is a very strong one, especially if it causes either pain or pleasure, it will be stored in the memory areas of the brain in the form of a long-term memory. This memory results from some long-term chemical or physical change in the synapse that alters their future ability to transmit signals. That is, those synapses that are excited for a specific thought develop a permanent or semi-permanent facilitation that allows the same thought to reappear at a later time when elicited by appropriate stimulation. Another intellectual process of the brain is its ability to analyze the incoming sensory information and make it meaningful. The most important area of the entire cerebral cortex for this function is Wernike's area located in the right handed person in the posterior, superior part of the left temporal lobe. It is here that information derived from auditory, visual and somatic experiences all come together and is interpreted.

**36. According to the text, all memories .....**

- a) continue to exist in the brain forever  
b) will remain temporarily if they cause either pain or pleasure  
c) result from long term changes in the synapses  
d) are gathered in the neural system of the brain

**37. According to this passage, .....**

- a) all memories undergo changes in synapses  
b) when the neurons are continuously activated, a memory' is retained temporarily  
c) short term memories result from a thought with pain or pleasure  
d) the synapses facilitate the appearance of a thought at a later time

**38. The reappearance of a specific thought depends on .....**

- a) intermittent activation of neurons
- b) auditory, visual and somatic experiences
- c) incoming sensory information
- d) excitation of the synapses

**39. According to the information in the passage, Wernike's area .....**

- a) is situated in people's posterior, superior part of the left temporal lobe
- b) makes the incoming information interpretable
- c) analyzes all the functions of the cerebral cortex
- d) rejects the incoming meaningless information

**40. According to this passage..... helps differentiate short term and long term memories.**

- a) thought strength
- b) signal transmission
- c) thought strength
- d) signal transmission

1	b	11	a	21	d	31	a
2	d	12	c	22	c	32	c
3	a	13	a	23	d	33	a
4	b	14	a	24	c	34	d
5	c	15	d	25	a	35	c
6	c	16	b	26	b	36	d
7	a	17	d	27	d	37	d
8	b	18	b	28	a	38	d
9	a	19	b	29	c	39	b
10	b	20	a	30	a	40	a

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**14. He did not do anything new; his experiment is a/an..... of what others have already done.**

- a) replication      b) distortion      c) orientation      d) distraction

**15. Today, there are more than five million people in the United States alone who are addicted and dependent on painkillers or similar .....**

- a) incentives      b) clamps      c) anesthetics      d) opiates

**16. Medical genetics is the specialty of medicine that involves the diagnosis and management of..... disorders being passed genetically.**

- a) hereditary      b) conformity      c) affinity      d) supplementary

**17. Tennis elbow is a painful condition that occurs when tendons in your elbow are overworked, usually by..... motions of the wrist and arm.**

- a) crucial      b) soothing      c) beneficial      d) repetitive

**18. Not only does television promote snacking and take up the time that could better be spent exercising, it turns out to have another..... effect on weight.**

- a) ambitious      b) precious      c) contagious      d) hazardous

**19. Normally, it's the immune system that protects the body against disease by searching out and destroying foreign..... such as viruses and bacteria.**

- a) incisions      b) invaders      c) increments      d) reformers

**20. The results of the investigation, although....., suggest a possible relationship between low level of antioxidants and diabetes.**

- a) eminent      b) inconclusive      c) definite      d) impressive

## Part Two: Reading Comprehension

### Directions

Read the following passages carefully. Each one is followed by several questions about it. Choose the one best answer.(a), (b), (c), or (d). to each question. Then on your answer sheet, fill in the space that corresponds to the letter of the answer you have chosen. Base your answer to each question on the information given in the passage only.

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### Passage One

Let's consider the hypothetical case of a physician who has been prescribing a variety of drugs for patients with high blood pressure. He has read about each in the medical literature, and has also recently seen articles about calcium channel blockers. But he realizes that he has only an impressionistic sense of how well the medications he currently uses are functioning; adding one more may well create more confusion than anything else. However, he certainly does not want to discount any new drug which may aid his patients. He realizes that laboratory studies, while obviously significant, are not the same as systematic observation of what is happening to his own patients. What he really wants to know is how the drugs he is currently using are affecting his patients, so he can draw some of his own conclusions about whether any one of the medications was more effective, and if so, in what specific context. This could also suggest the conditions under which the new calcium channel blockers might be worth trying. Keeping records on paper, and calculating the data by hand, seems simply more demanding.

**21. The passage implies that physicians should be more..... in their prescriptions.**

- a) objective
- b) laboratory-oriented
- c) text-oriented
- d) subjective

**22. Keeping records on paper and then calculating the data by hand is considered .....**

- a) an improper solution to prescribe
- b) as another challenge for the physician
- c) as totally unadvisable by physicians
- d) an alternative to doctor's prescription

**23. The author suggests that physicians .....**

- a) should prescribe inexpensive medicines
- b) should not undervalue new medications
- c) must be limited to laboratory- approved drugs
- d) must not prescribe calcium channel blockers

**24. We understand from the passage that the author values lab drug investigations .....**

- a) more than other research methods
- b) less than his patients' reactions to drugs
- c) more than systematic observation of patients
- d) less than his impressionistic sense of drugs

### Passage Two

Approximately one in four Americans will suffer from a neurodegenerative disease, and virtually all Americans will have a family member with one of these conditions.

Unfortunately, the underlying mechanisms of neurodegenerative - and how they lead to disease- are not well understood. The complexity of these diseases makes it impossible for any single scientist to find the cause or cure. Instead, it will require an integrated, collaborative, interdisciplinary approach- involving interactive groups of scientists and clinicians- to make headway towards cures. This was the vision of Drs. Michael Zigmond and Robert Moore when they approached the Scaife Foundations with their idea to create the Pittsburgh Institute for neurodegenerative Diseases (PIN'D).

The PIND brings together in one place scientists and clinician scientists from diverse disciplines and perspectives- and several School of Medicine departments- to collaborate on studies of neurodegenerative disorders. By virtue of both philosophy and architecture, the PIND is a center where there are no walls between individual scientists, and where there are no barriers between basic scientific inquiry and translation of the latest findings into new treatments. As such, the mission of the PIND is to transform cutting-edge science into novel therapies and diagnostics that directly benefit individuals affected by neurodegenerative diseases, such as Parkinson's disease, Alzheimer's disease, and stroke.

**25. The first sentence deals with the ..... of neurodegenerative disease in America.**

- a) magnitude
- b) interactivity
- c) hazards
- d) treatment

**26. The main cause of neurodegenerative disease is .....**

- a) recently understood
- b) not so significant
- c) yet to be identified
- d) about to be declared

**27. A breakthrough in understanding the underlying mechanisms of neurodegeneration..... interdisciplinary teamwork.**

- a) has little to do with
- b) should be limited to
- c) has already been reported by
- d) would involve

**28. Drs. Michael Zigmond and Robert Moore have been referred to for..... towards cures.**

- a) making headway
- b) funding the Scaife Foundations
- c) proposing an interdisciplinary approach for interactive group work
- d) closing up the Pittsburgh Institute for neurodegenerative disease

**29. The PIND has been successful in .....**

- a) finding a cure for neurodegenerative disorders
- b) setting up diverse disciplines in schools of medicine
- c) promoting collaborative studies on neurodegenerative diseases
- d) finding a conclusive cure for neurodegenerative disorders

**30. Philosophy and architecture..... a barrier-free atmosphere in PIND.**

- a) have paved the way for
- b) serve as obstacles for
- c) remain independent of
- d) are among the byproducts of

### Passage Three

The underground railway stations' air, like that found in welding factories, has a higher proportion of airborne metals, and is more damaging than normal air for two reasons, first, because its particles are very small, when you add them all up, for the same amount of metal contained, they present a much larger surface area for contact compared to their volume than the larger particles. Second, the small particles penetrate deeper. The dust in the air comprises coarse particles (between 2.5 and 10 micrometers) called PM 10 (Particulate Matter up to 10 micrometers in size), fine particles smaller than 2.5 micrometers, and ultrafine particles which are smaller than 0.1 micrometers. Compared to coarse and fine stations' particles, little is known about the chemistry of particles smaller than 0.1 micrometers. We know that coarse particles don't get further into the body than the nasal passages and the bronchi, while fine dust reaches the smaller airways (the bronchioles), and ultrafine dust reaches the deepest lung areas into the alveoli. There is also a suggestion that ultrafine dust may penetrate the underlying tissue and the bloodstream and damage not only the airways but also the cardiovascular system, liver, brain and kidneys.

**31. Based on the information presented in the passage, the stations' air .....**

- a) contains more coarse metal particles than normal air
- b) contains more metal than welding factories and normal air
- c) and welding factories' air have high amounts of metal dust
- d) and normal air have almost equal amounts of metal dust

**32. According to the author, the air in underground railway stations is more damaging than the normal air, because it contains .....**

- a) more airborne metal than that found in factories
- b) as much ultrafine particulate matter as do welding factories
- c) more airborne metal ultrafine particulate matter
- d) much more coarse and fine particulate matter

**33. Based on the classification of the passage, a particle of around 1 micrometer would be considered as .....**

- a) small
- b) coarse
- c) fine
- d) ultrafine

**34. The author is perhaps still uncertain about the underground railway station's causing damage to the .....**

- a) heart
- b) alveoli
- c) nasal passages
- d) smaller airways



**35. Among the different types of particulate matter, ..... particles are still the most unknown.**

- a) coarse                      b) fine                      c) ultrafine                      d) small

**Passage Four**

Smallpox has a number of unique characteristics which made its eradication possible. Its symptoms develop quickly, making those infected aware of the disease at an early stage and reducing the possibility of them unknowingly transmitting the disease to others. Because it is almost completely specific to humans, there is a very low possibility of smallpox being kept alive in animals to reinfect humans. The availability of effective vaccines was also a necessary factor. Finally, the high level of mortality from the disease made it easier to achieve global agreement on its eradication.

Although smallpox has ceased to kill, it remains a potential danger to humanity. Though the possibility of the virus surviving in animals is very low, it is still a possibility. So, too, is the accidental release of material traditionally used for variolation in remote communities. However, the most pressing fear is that stocks of the variola virus set aside for research purposes could some day be used as a biological warfare agent. The proposal, in 2003, to inoculate health care staff in some countries against such a possibility shows that the potential of smallpox to kill remains as strong as ever.

**36. The possibility of the eradication of smallpox was due to its .....**

- a) low morbidity rate  
b) distinct and specific features  
c) high rate of reinfection of people and animals  
d) lack of noticeable symptoms

**37. At an early stage of smallpox, most patients .....**

- a) become more vulnerable to death  
b) seem likely to transmit the disease  
c) manifest the disease symptoms  
d) tend to move to remote communities

**38. All of the following can be the potential causes of the spread of smallpox except .....**

- a) rapid transmission of the disease at early stages  
b) the available stock of variola virus in research centers  
c) the possibility of virus surviving in animals  
d) release of its virus used for variolation

**39. Inoculation of health care staff is performed because .....**

- a) smallpox is prevalent in some regions  
b) eradication has failed in some countries  
c) the disease is completely specific to humans  
d) the disease can still pose a threat to humans

**40. The accidental release of variolation material .....**

- a) is predicted in near future                      b) can cause a major disaster  
c) is not a threat anymore                      d) is unlikely to cause mortalities

1	d	11	d	21	a	31	c
2	c	12	a	22	b	32	c
3	b	13	a	23	b	33	c
4	c	14	a	24	b	34	a
5	b	15	d	25	a	35	c
6	c	16	a	26	c	36	b
7	a	17	d	27	d	37	c
8	d	18	d	28	c	38	a
9	b	19	b	29	c	39	d
10	a	20	b	30	a	40	b



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